

Report No.:

Test Time: 2022/8/29 11:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: PNR23060BK

Luminous Length (mm): 535

Luminous Height (mm): 22

Current: 0.406 A

Power Factor: 1.000

Luminaire Description: PNR23060BK

Luminous Width (mm): 23

Voltage: 24.0 V

Power: 9.74 W

Photometric Results

CIE Class: Direct

Measurement Flux: 689.7 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(10%,50%): H71.4,H55

Vertical Diffuse Angle(10%,50%): V71.5,V55

Luminaire Efficacy Rating (LER): 71

Max. Intensity: 985.15 cd

Total Rated Lamp Lumens: 689.7 lm

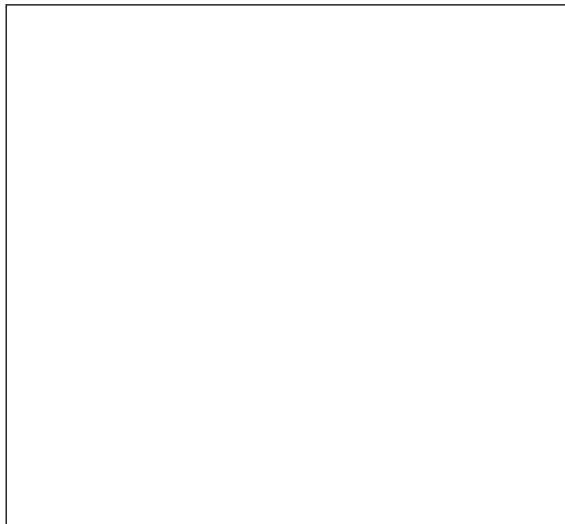
Efficiency: 100%

Upward Ratio: 2%

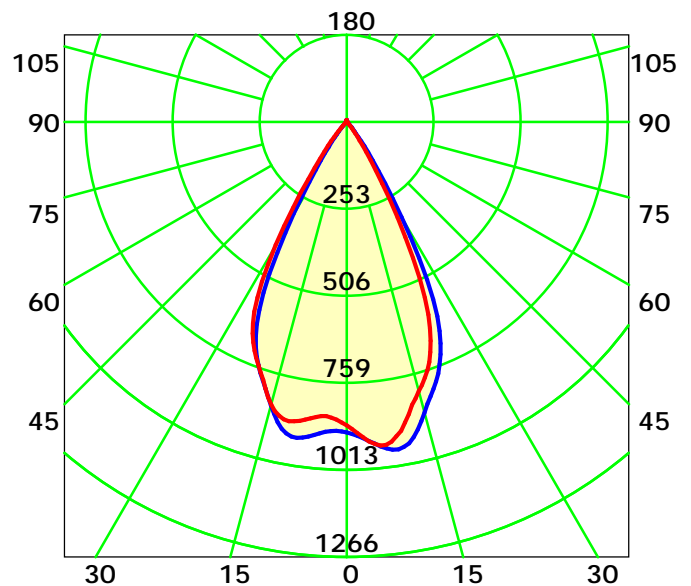
Central Intensity: 903.4 cd

Pos of Max. Intensity: H60 V7

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 55.0° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

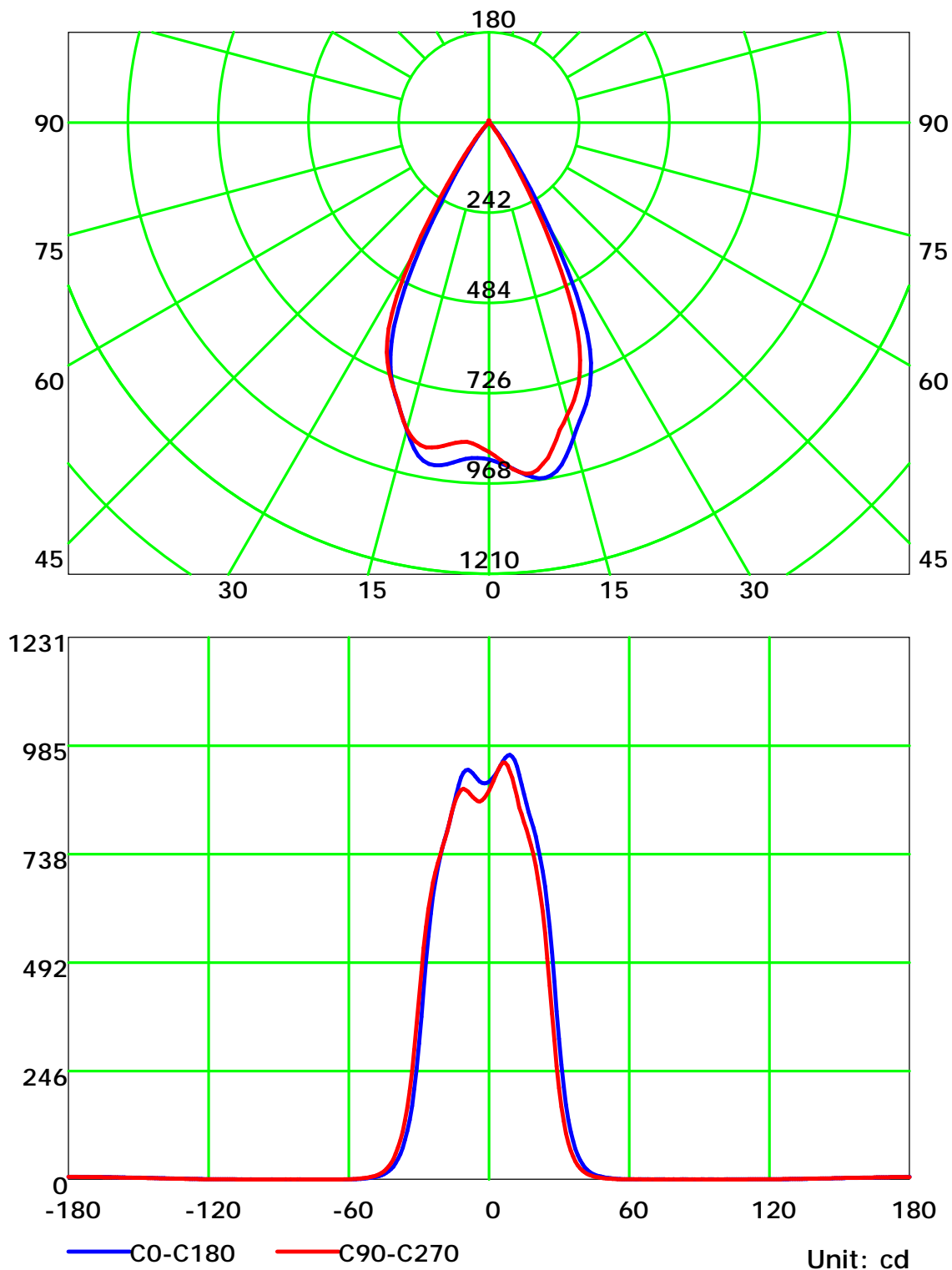
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

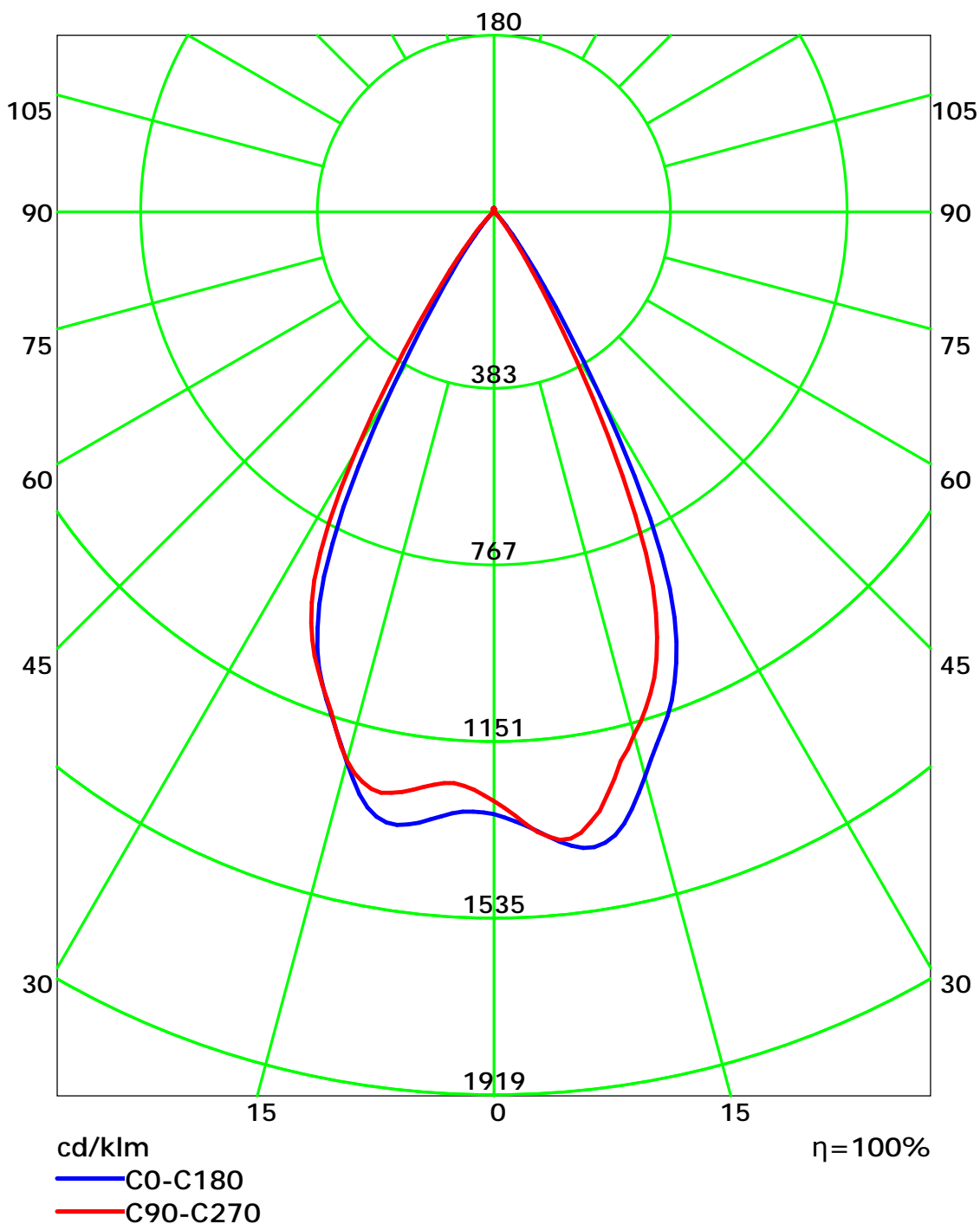
Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

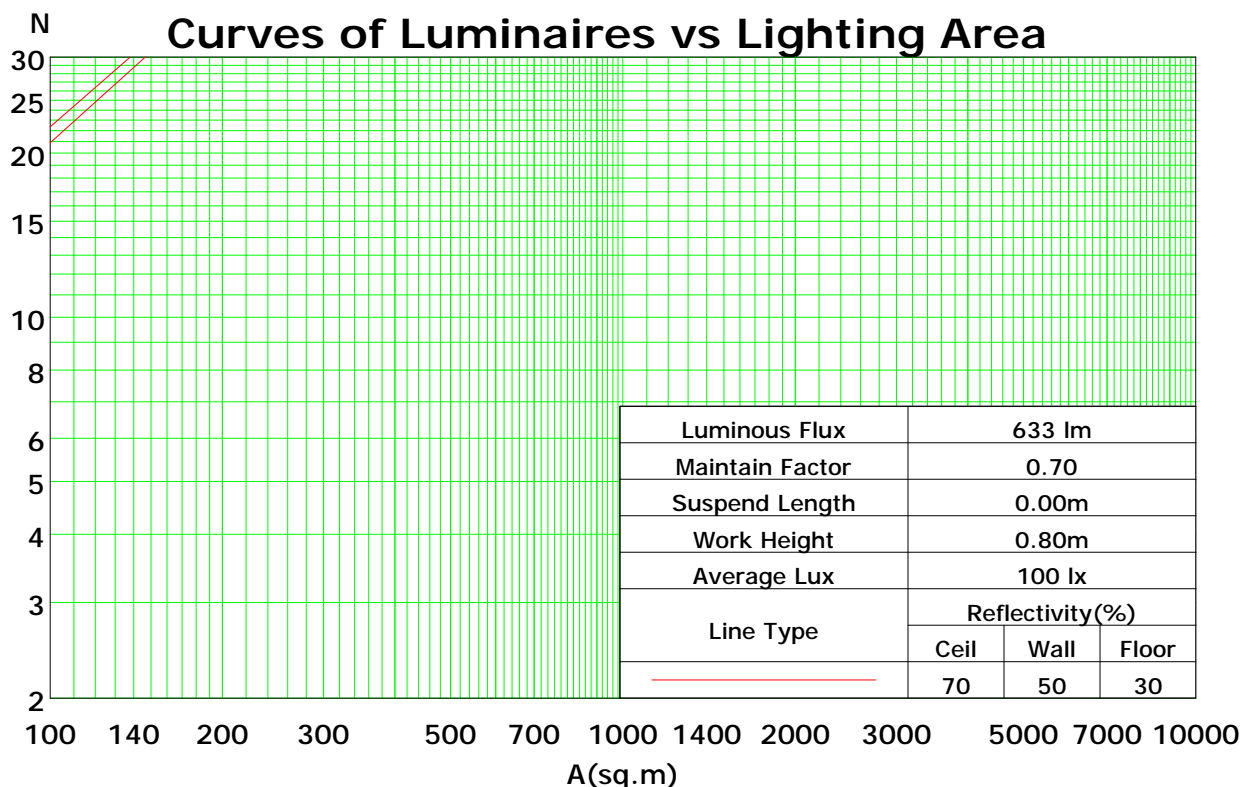
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98
1	114	111	109	107	111	109	107	105	104	103	101	100	99	98	97	96	95	93
2	109	104	100	97	106	102	99	96	99	96	94	96	93	91	93	91	89	88
3	104	98	93	90	102	96	92	89	94	90	87	91	88	86	89	86	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	80	85	82	79	78
5	95	87	82	78	93	86	81	77	84	80	77	82	79	76	81	78	75	74
6	90	82	77	73	89	82	76	73	80	75	72	78	75	72	77	74	71	70
7	87	78	73	69	85	77	72	69	76	71	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	68	65	72	68	64	71	67	64	70	66	64	62
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	64	60	58	56

Spacing Criteria (0-180): 0.94

Spacing Criteria (90-270): 0.92

Spacing Criteria (Diagonal): 0.80



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

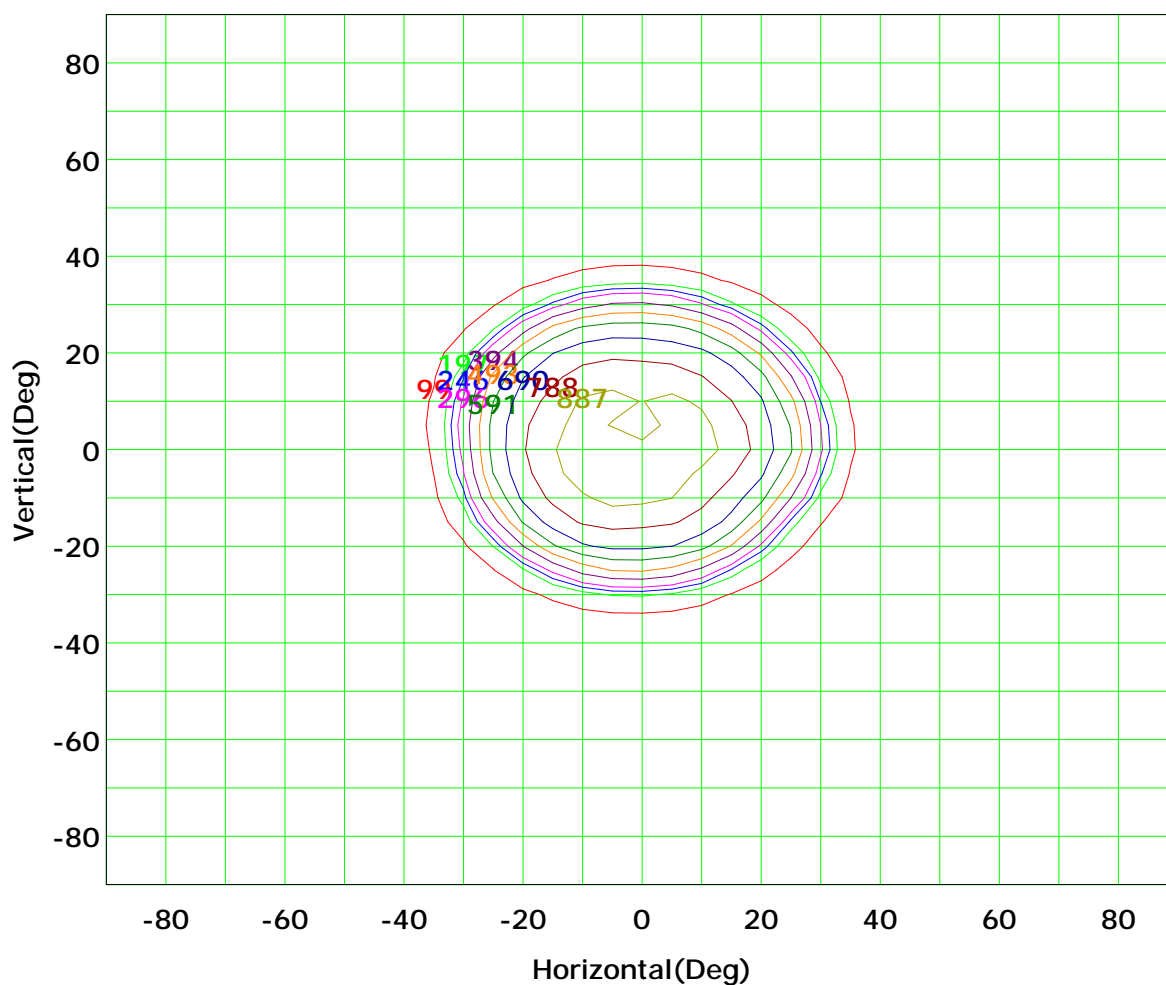
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



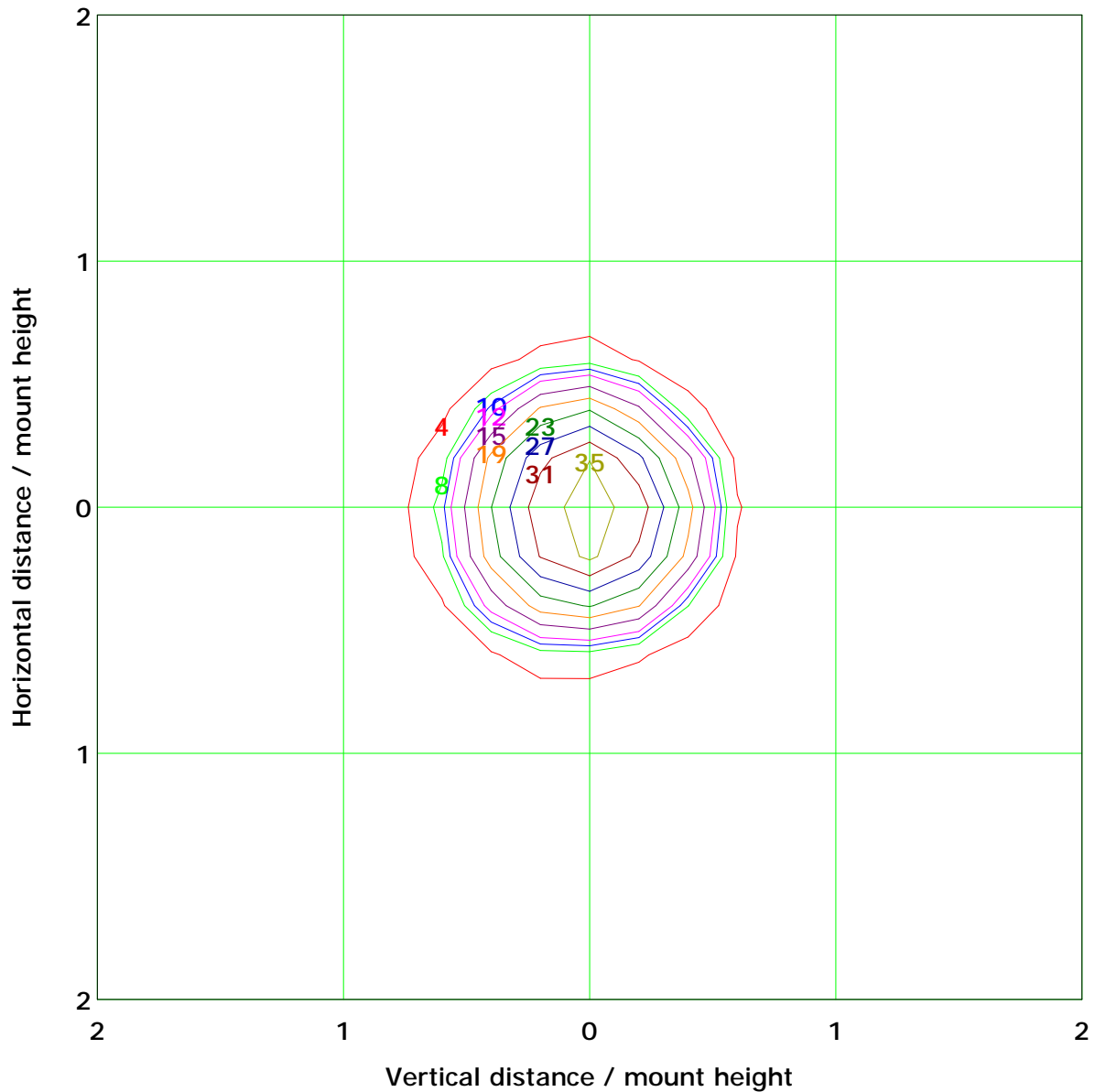
Imax (100%): 985 cd

(10%): 99 cd	(20%): 197 cd
(25%): 246 cd	(30%): 296 cd
(40%): 394 cd	(50%): 493 cd
(60%): 591 cd	(70%): 690 cd
(80%): 788 cd	(90%): 887 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 38.7 lx	
(10%): 3.9 lx	(20%): 7.7 lx
(25%): 9.7 lx	(30%): 11.6 lx
(40%): 15.5 lx	(50%): 19.3 lx
(60%): 23.2 lx	(70%): 27.1 lx
(80%): 30.9 lx	(90%): 34.8 lx

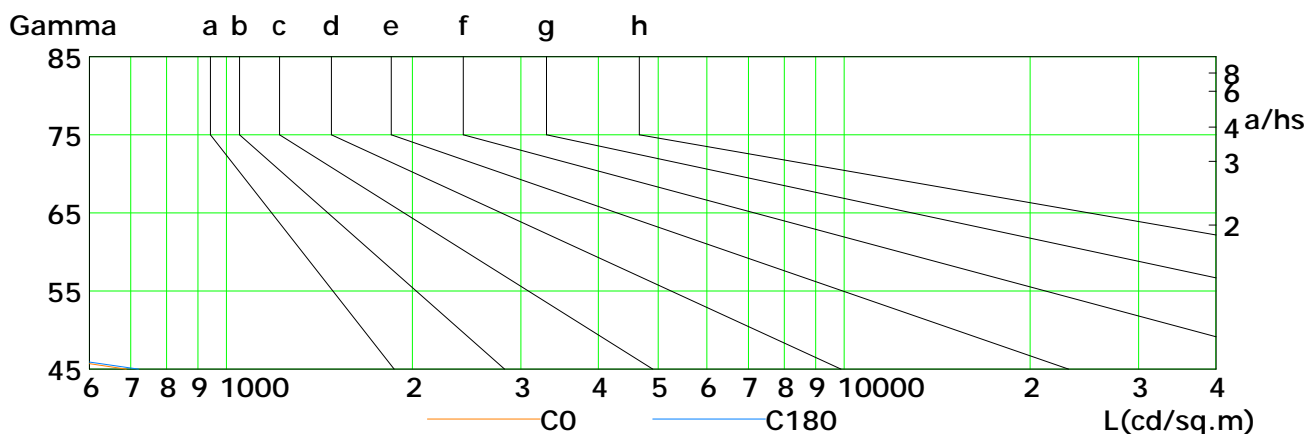
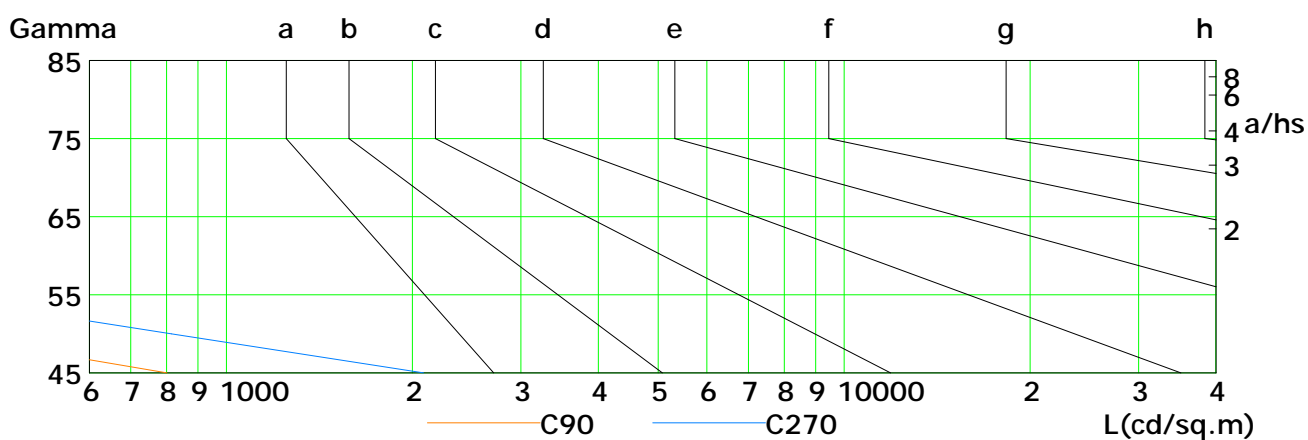
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h



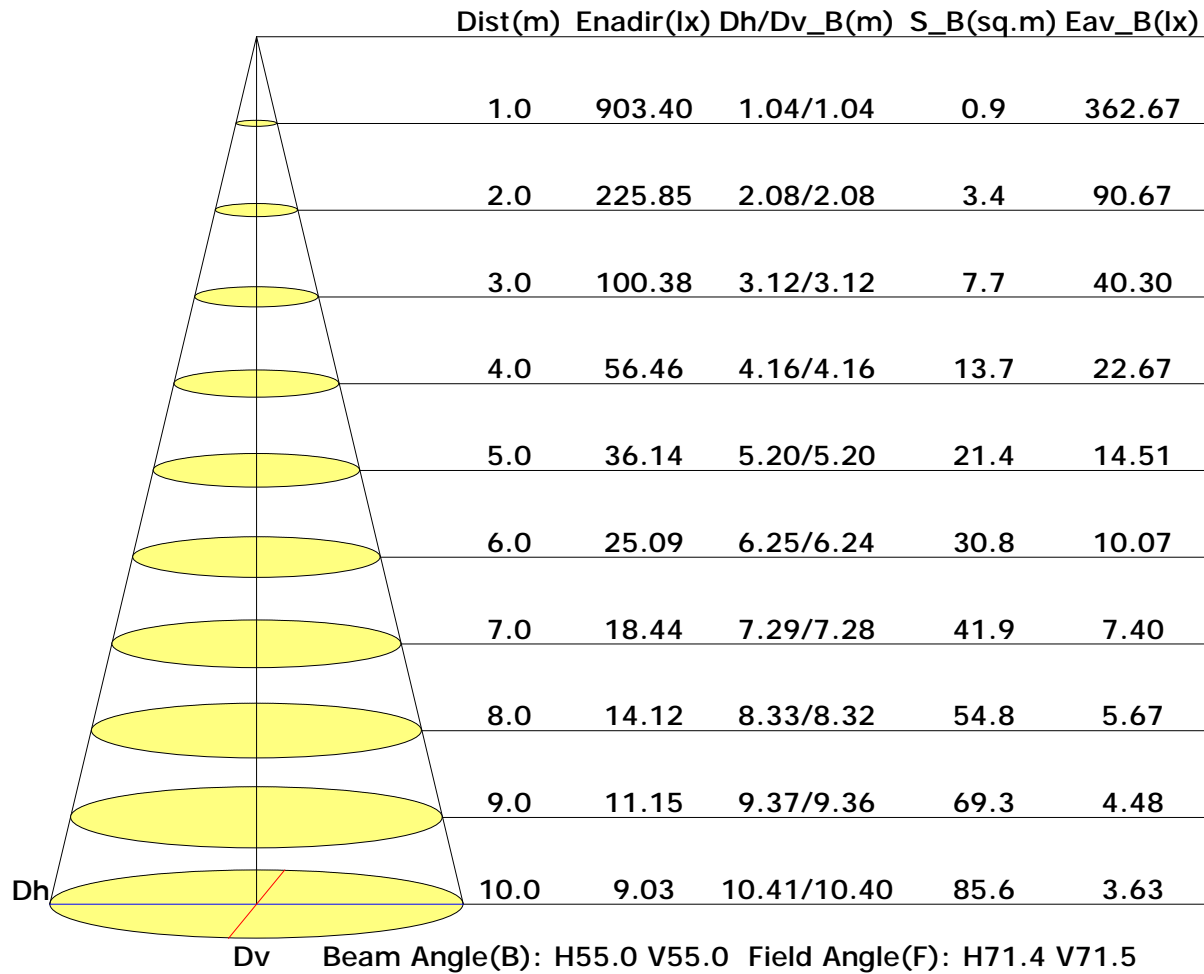
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	689	269	105	41	40	37	44	43	48
C90	801	346	145	93	108	130	166	213	374
C180	720	271	100	39	35	35	36	41	39
C270	2086	815	325	120	104	126	144	201	387

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



Illuminance at a Distance

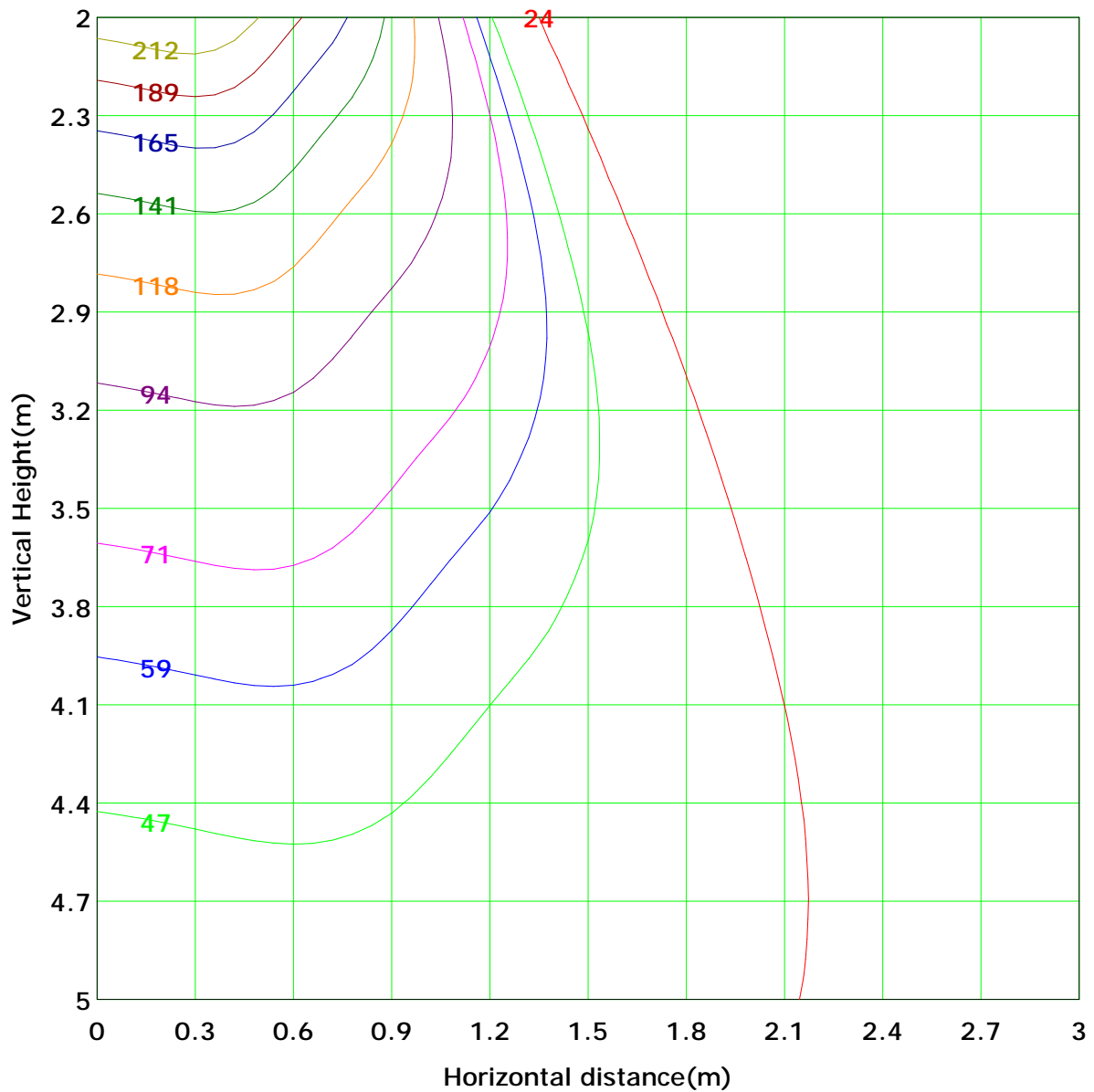


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 235.8 lx
(10%): 23.6 lx	(20%): 47.2 lx	
(25%): 58.9 lx	(30%): 70.7 lx	
(40%): 94.3 lx	(50%): 117.9 lx	
(60%): 141.5 lx	(70%): 165.0 lx	
(80%): 188.6 lx	(90%): 212.2 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Area Flux Table

Unit: lm

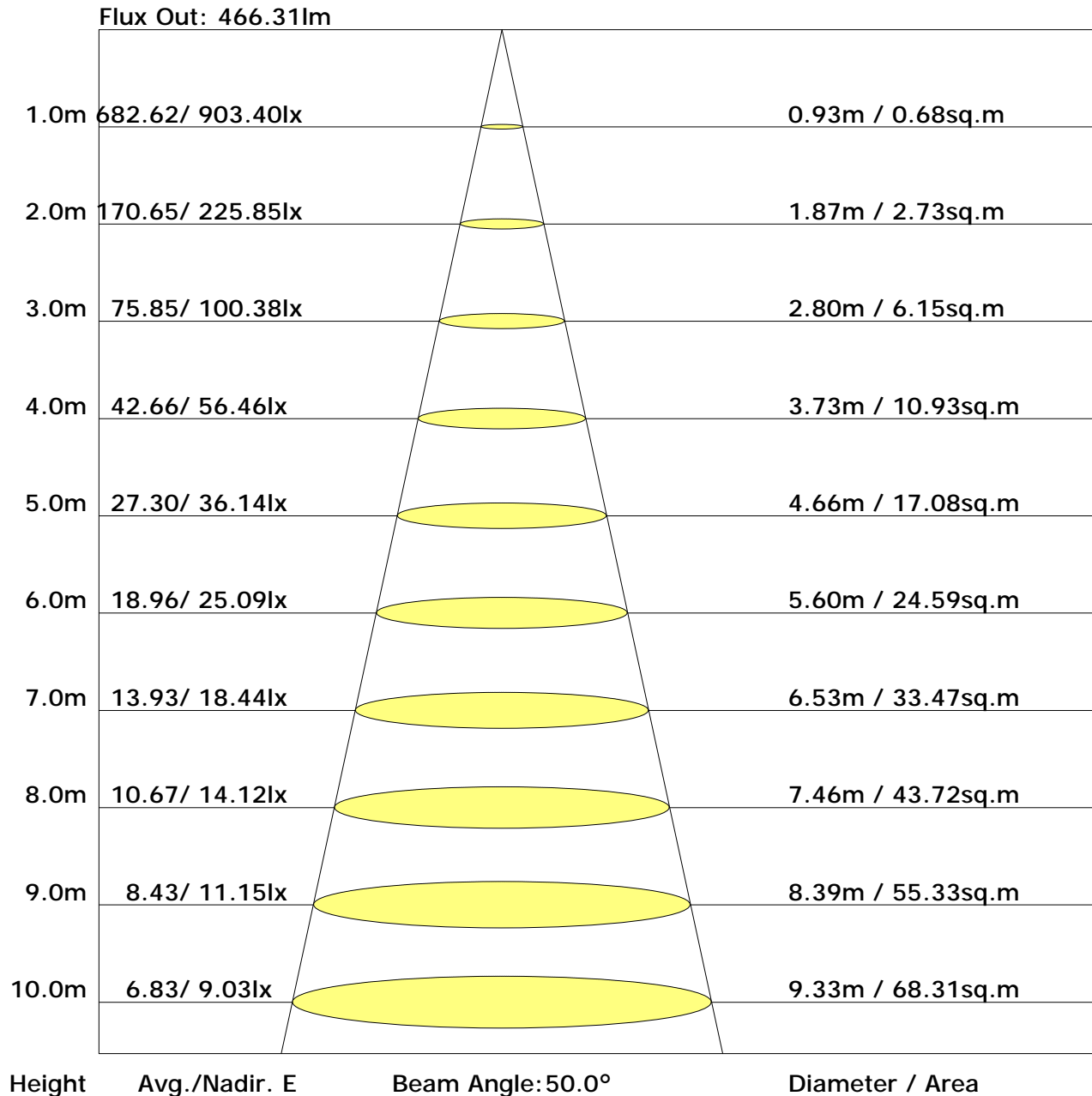
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
	-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
	-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	5.8	0.0
	-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.8	52.2	0.0
	-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.4	109.4	0.0
	-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	144.1	141.2	0.0
	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.5	145.7	0.0
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123.2	120.2	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	63.0	0.0
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	7.8	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Flux(T)	0.0	0.1	0.1	0.3	1.4	11.0	55.8	112.4	144.1	148.5	123.2	66.5	13.2	1.6	0.3	0.1	0.0	0.0	679		
	Flux(E)	0.0	0.0	0.0	0.0	0.0	5.8	52.2	109.4	141.2	145.7	120.2	63.0	7.8	0.0	0.0	0.0	0.0	0.0		645	
	Flux(T)Flux(E)																					

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-9.2	-8.3	-8.8	-7.9	-7.6	-14.7	-13.8	-14.3	-13.4	-13.1
3H	-7.8	-7.0	-7.3	-6.6	-6.2	-12.2	-11.4	-11.8	-11.1	-10.7
4H	-6.7	-6.0	-6.3	-5.6	-5.2	-11.3	-10.6	-10.9	-10.2	-9.8
6H	-5.5	-4.8	-5.0	-4.4	-4.0	-10.0	-9.3	-9.5	-8.9	-8.5
8H	-4.7	-4.1	-4.2	-3.7	-3.2	-9.4	-8.7	-8.9	-8.3	-7.9
12H	-3.7	-3.1	-3.3	-2.7	-2.3	-8.7	-8.1	-8.2	-7.7	-7.2
X=4H Y=2H	-9.2	-8.5	-8.8	-8.1	-7.7	-13.8	-13.1	-13.3	-12.7	-12.2
3H	-7.5	-6.9	-7.1	-6.5	-6.1	-10.9	-10.3	-10.5	-9.9	-9.4
4H	-6.3	-5.8	-5.8	-5.3	-4.8	-9.8	-9.2	-9.3	-8.8	-8.3
6H	-4.8	-4.4	-4.3	-3.9	-3.4	-8.4	-7.9	-7.9	-7.5	-6.9
8H	-3.9	-3.5	-3.4	-3.1	-2.5	-7.7	-7.3	-7.2	-6.8	-6.3
12H	-2.8	-2.5	-2.3	-1.9	-1.4	-7.0	-6.6	-6.5	-6.1	-5.6
X=8H Y=4H	-6.1	-5.7	-5.6	-5.2	-4.7	-9.1	-8.7	-8.6	-8.2	-7.7
6H	-4.5	-4.2	-4.0	-3.6	-3.1	-7.5	-7.2	-7.0	-6.6	-6.1
8H	-3.5	-3.2	-2.9	-2.6	-2.1	-6.7	-6.4	-6.1	-5.8	-5.3
12H	-2.2	-1.9	-1.6	-1.4	-0.8	-5.7	-5.5	-5.2	-5.0	-4.3
X=12H Y=4H	-6.1	-5.7	-5.6	-5.2	-4.7	-9.0	-8.6	-8.4	-8.1	-7.6
6H	-4.4	-4.2	-3.9	-3.7	-3.1	-7.2	-6.9	-6.7	-6.4	-5.9
8H	-3.4	-3.1	-2.8	-2.6	-2.0	-6.3	-6.0	-5.7	-5.5	-4.9

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.87	0.93	0.97	1.00	1.04	1.06	1.08	1.10	1.11
	0.30		0.83	0.89	0.93	0.96	1.01	1.03	1.05	1.08	1.09
	0.20		0.80	0.86	0.90	0.94	0.98	1.01	1.03	1.06	1.08
0.50	0.50	0.20	0.86	0.91	0.95	0.97	1.01	1.03	1.04	1.06	1.07
	0.30		0.82	0.88	0.92	0.94	0.98	1.00	1.02	1.04	1.05
	0.20		0.79	0.85	0.89	0.92	0.96	0.98	1.00	1.03	1.04
0.30	0.50	0.20	0.85	0.90	0.93	0.95	0.98	0.99	1.01	1.02	1.03
	0.30		0.81	0.87	0.90	0.93	0.96	0.98	0.99	1.01	1.02
	0.20		0.79	0.84	0.88	0.91	0.94	0.96	0.98	1.00	1.01
0.00	0.00	0.00	0.77	0.82	0.86	0.88	0.91	0.92	0.94	0.95	0.96
Rating: 10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.54	0.43	0.36	0.31	0.25	0.20	0.17	0.13	0.11
	0.30		0.45	0.37	0.32	0.28	0.22	0.19	0.16	0.13	0.10
	0.20		0.39	0.32	0.28	0.25	0.20	0.17	0.15	0.12	0.10
0.50	0.50	0.20	0.51	0.41	0.34	0.29	0.23	0.23	0.16	0.12	0.10
	0.30		0.43	0.35	0.30	0.26	0.21	0.17	0.15	0.11	0.09
	0.20		0.38	0.31	0.27	0.23	0.19	0.16	0.14	0.11	0.09
0.30	0.50	0.20	0.49	0.38	0.31	0.27	0.21	0.17	0.14	0.11	0.09
	0.30		0.42	0.33	0.28	0.24	0.19	0.16	0.13	0.10	0.09
	0.20		0.36	0.30	0.25	0.22	0.18	0.15	0.13	0.10	0.08
0.00	0.00	0.00	0.22	0.17	0.14	0.12	0.09	0.07	0.06	0.04	0.04
Rating: 10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22
	0.30		0.10	0.12	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	0.20
0.50	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19
0.30	0.50	0.20	0.13	0.15	0.16	0.16	0.18	0.19	0.19	0.20	0.20
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19
	0.20		0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.18	0.19
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<p>Rating: 10W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	895.5	0.9	0.9	0.12	0.12
1.0-2.0	897.5	2.6	3.4	0.37	0.50
2.0-3.0	900.9	4.3	7.7	0.62	1.12
3.0-4.0	905.6	6.1	13.8	0.88	2.00
4.0-5.0	911.1	7.8	21.6	1.14	3.14
5.0-6.0	917.3	9.6	31.3	1.40	4.54
6.0-7.0	922.5	11.5	42.7	1.66	6.20
7.0-8.0	925.4	13.2	56.0	1.92	8.12
8.0-9.0	925.3	15.0	71.0	2.17	10.29
9.0-10.0	922.0	16.7	87.7	2.42	12.71
10.0-11.0	915.2	18.3	106.0	2.65	15.36
11.0-12.0	904.8	19.8	125.7	2.87	18.23
12.0-13.0	891.0	21.1	146.9	3.07	21.30
13.0-14.0	875.0	22.4	169.3	3.25	24.55
14.0-15.0	857.6	23.5	192.8	3.41	27.96
15.0-16.0	839.2	24.6	217.4	3.57	31.53
16.0-17.0	820.3	25.5	243.0	3.70	35.23
17.0-18.0	800.6	26.4	269.4	3.83	39.06
18.0-19.0	780.5	27.2	296.5	3.94	43.00
19.0-20.0	759.8	27.8	324.3	4.03	47.03
20.0-21.0	737.5	28.3	352.7	4.11	51.13
21.0-22.0	712.6	28.6	381.3	4.15	55.29
22.0-23.0	684.1	28.7	410.0	4.16	59.45
23.0-24.0	651.0	28.5	438.5	4.13	63.58
24.0-25.0	611.7	27.8	466.3	4.03	67.61
25.0-26.0	566.0	26.7	493.0	3.87	71.49
26.0-27.0	514.6	25.2	518.2	3.65	75.14
27.0-28.0	458.6	23.2	541.4	3.37	78.50
28.0-29.0	400.8	21.0	562.4	3.04	81.54
29.0-30.0	343.6	18.6	581.0	2.69	84.23
30.0-31.0	288.7	16.1	597.0	2.33	86.56
31.0-32.0	238.8	13.7	610.7	1.98	88.55
32.0-33.0	195.7	11.5	622.2	1.67	90.22
33.0-34.0	158.9	9.6	631.9	1.39	91.61
34.0-35.0	128.5	8.0	639.8	1.16	92.77
35.0-36.0	104.0	6.6	646.5	0.96	93.73

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	84.1	5.5	652.0	0.80	94.53
37.0-38.0	67.9	4.5	656.5	0.66	95.19
38.0-39.0	54.5	3.7	660.2	0.54	95.73
39.0-40.0	43.8	3.1	663.3	0.44	96.17
40.0-41.0	35.1	2.5	665.8	0.36	96.53
41.0-42.0	28.0	2.0	667.8	0.30	96.83
42.0-43.0	22.5	1.7	669.5	0.24	97.07
43.0-44.0	18.1	1.4	670.8	0.20	97.27
44.0-45.0	14.5	1.1	671.9	0.16	97.43
45.0-46.0	11.7	0.9	672.9	0.13	97.56
46.0-47.0	9.5	0.8	673.6	0.11	97.67
47.0-48.0	7.8	0.6	674.3	0.09	97.76
48.0-49.0	6.4	0.5	674.8	0.08	97.84
49.0-50.0	5.3	0.4	675.2	0.06	97.90
50.0-51.0	4.4	0.4	675.6	0.05	97.96
51.0-52.0	3.6	0.3	675.9	0.05	98.00
52.0-53.0	3.0	0.3	676.2	0.04	98.04
53.0-54.0	2.4	0.2	676.4	0.03	98.07
54.0-55.0	2.0	0.2	676.6	0.03	98.10
55.0-56.0	1.6	0.1	676.7	0.02	98.12
56.0-57.0	1.3	0.1	676.8	0.02	98.13
57.0-58.0	1.1	0.1	676.9	0.01	98.15
58.0-59.0	0.9	0.1	677.0	0.01	98.16
59.0-60.0	0.8	0.1	677.1	0.01	98.17
60.0-61.0	0.7	0.1	677.2	0.01	98.18
61.0-62.0	0.6	0.1	677.2	0.01	98.19
62.0-63.0	0.6	0.1	677.3	0.01	98.20
63.0-64.0	0.6	0.1	677.3	0.01	98.21
64.0-65.0	0.6	0.1	677.4	0.01	98.22
65.0-66.0	0.6	0.1	677.5	0.01	98.23
66.0-67.0	0.6	0.1	677.5	0.01	98.23
67.0-68.0	0.6	0.1	677.6	0.01	98.24
68.0-69.0	0.6	0.1	677.6	0.01	98.25
69.0-70.0	0.6	0.1	677.7	0.01	98.26
70.0-71.0	0.6	0.1	677.8	0.01	98.27
71.0-72.0	0.6	0.1	677.8	0.01	98.28

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	0.6	0.1	677.9	0.01	98.29
73.0-74.0	0.6	0.1	677.9	0.01	98.30
74.0-75.0	0.6	0.1	678.0	0.01	98.31
75.0-76.0	0.6	0.1	678.1	0.01	98.31
76.0-77.0	0.6	0.1	678.1	0.01	98.32
77.0-78.0	0.6	0.1	678.2	0.01	98.33
78.0-79.0	0.6	0.1	678.3	0.01	98.34
79.0-80.0	0.6	0.1	678.3	0.01	98.35
80.0-81.0	0.6	0.1	678.4	0.01	98.36
81.0-82.0	0.6	0.1	678.4	0.01	98.37
82.0-83.0	0.6	0.1	678.5	0.01	98.38
83.0-84.0	0.6	0.1	678.6	0.01	98.39
84.0-85.0	0.6	0.1	678.6	0.01	98.40
85.0-86.0	0.6	0.1	678.7	0.01	98.41
86.0-87.0	0.6	0.1	678.8	0.01	98.42
87.0-88.0	0.6	0.1	678.8	0.01	98.42
88.0-89.0	0.6	0.1	678.9	0.01	98.43
89.0-90.0	0.6	0.1	679.0	0.01	98.44
90.0-91.0	0.6	0.1	679.0	0.01	98.45
91.0-92.0	0.6	0.1	679.1	0.01	98.46
92.0-93.0	0.6	0.1	679.1	0.01	98.47
93.0-94.0	0.6	0.1	679.2	0.01	98.48
94.0-95.0	0.6	0.1	679.3	0.01	98.49
95.0-96.0	0.6	0.1	679.3	0.01	98.50
96.0-97.0	0.6	0.1	679.4	0.01	98.51
97.0-98.0	0.6	0.1	679.5	0.01	98.52
98.0-99.0	0.6	0.1	679.5	0.01	98.53
99.0-100.0	0.6	0.1	679.6	0.01	98.54
100.0-101.0	0.6	0.1	679.7	0.01	98.54
101.0-102.0	0.6	0.1	679.7	0.01	98.55
102.0-103.0	0.6	0.1	679.8	0.01	98.56
103.0-104.0	0.6	0.1	679.8	0.01	98.57
104.0-105.0	0.6	0.1	679.9	0.01	98.58
105.0-106.0	0.6	0.1	680.0	0.01	98.59
106.0-107.0	0.6	0.1	680.0	0.01	98.60
107.0-108.0	0.6	0.1	680.1	0.01	98.61

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.6	0.1	680.2	0.01	98.62
109.0-110.0	0.6	0.1	680.2	0.01	98.63
110.0-111.0	0.6	0.1	680.3	0.01	98.64
111.0-112.0	0.6	0.1	680.4	0.01	98.65
112.0-113.0	0.7	0.1	680.4	0.01	98.66
113.0-114.0	0.7	0.1	680.5	0.01	98.67
114.0-115.0	0.7	0.1	680.6	0.01	98.68
115.0-116.0	0.7	0.1	680.6	0.01	98.69
116.0-117.0	0.8	0.1	680.7	0.01	98.70
117.0-118.0	0.8	0.1	680.8	0.01	98.71
118.0-119.0	0.8	0.1	680.9	0.01	98.72
119.0-120.0	0.9	0.1	681.0	0.01	98.73
120.0-121.0	0.9	0.1	681.0	0.01	98.75
121.0-122.0	1.0	0.1	681.1	0.01	98.76
122.0-123.0	1.0	0.1	681.2	0.01	98.77
123.0-124.0	1.1	0.1	681.3	0.02	98.79
124.0-125.0	1.2	0.1	681.4	0.02	98.80
125.0-126.0	1.3	0.1	681.6	0.02	98.82
126.0-127.0	1.3	0.1	681.7	0.02	98.84
127.0-128.0	1.4	0.1	681.8	0.02	98.85
128.0-129.0	1.5	0.1	681.9	0.02	98.87
129.0-130.0	1.6	0.1	682.1	0.02	98.89
130.0-131.0	1.7	0.1	682.2	0.02	98.91
131.0-132.0	1.8	0.1	682.3	0.02	98.93
132.0-133.0	1.9	0.2	682.5	0.02	98.96
133.0-134.0	2.0	0.2	682.6	0.02	98.98
134.0-135.0	2.0	0.2	682.8	0.02	99.00
135.0-136.0	2.1	0.2	683.0	0.02	99.03
136.0-137.0	2.3	0.2	683.1	0.02	99.05
137.0-138.0	2.4	0.2	683.3	0.03	99.08
138.0-139.0	2.5	0.2	683.5	0.03	99.10
139.0-140.0	2.6	0.2	683.7	0.03	99.13
140.0-141.0	2.7	0.2	683.9	0.03	99.16
141.0-142.0	2.8	0.2	684.1	0.03	99.18
142.0-143.0	2.9	0.2	684.3	0.03	99.21
143.0-144.0	3.0	0.2	684.5	0.03	99.24

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	3.2	0.2	684.7	0.03	99.27
145.0-146.0	3.3	0.2	684.9	0.03	99.30
146.0-147.0	3.4	0.2	685.1	0.03	99.33
147.0-148.0	3.5	0.2	685.3	0.03	99.36
148.0-149.0	3.6	0.2	685.5	0.03	99.39
149.0-150.0	3.7	0.2	685.7	0.03	99.42
150.0-151.0	3.8	0.2	685.9	0.03	99.45
151.0-152.0	4.0	0.2	686.1	0.03	99.48
152.0-153.0	4.1	0.2	686.3	0.03	99.51
153.0-154.0	4.2	0.2	686.5	0.03	99.54
154.0-155.0	4.3	0.2	686.7	0.03	99.57
155.0-156.0	4.4	0.2	686.9	0.03	99.60
156.0-157.0	4.5	0.2	687.1	0.03	99.63
157.0-158.0	4.5	0.2	687.3	0.03	99.65
158.0-159.0	4.6	0.2	687.5	0.03	99.68
159.0-160.0	4.7	0.2	687.7	0.03	99.71
160.0-161.0	4.8	0.2	687.8	0.03	99.73
161.0-162.0	4.9	0.2	688.0	0.02	99.76
162.0-163.0	5.0	0.2	688.2	0.02	99.78
163.0-164.0	5.1	0.2	688.3	0.02	99.80
164.0-165.0	5.2	0.2	688.5	0.02	99.83
165.0-166.0	5.3	0.1	688.6	0.02	99.85
166.0-167.0	5.3	0.1	688.8	0.02	99.87
167.0-168.0	5.4	0.1	688.9	0.02	99.89
168.0-169.0	5.5	0.1	689.0	0.02	99.90
169.0-170.0	5.6	0.1	689.1	0.02	99.92
170.0-171.0	5.7	0.1	689.2	0.01	99.93
171.0-172.0	5.7	0.1	689.3	0.01	99.95
172.0-173.0	5.8	0.1	689.4	0.01	99.96
173.0-174.0	5.9	0.1	689.5	0.01	99.97
174.0-175.0	6.0	0.1	689.5	0.01	99.98
175.0-176.0	6.0	0.1	689.6	0.01	99.99
176.0-177.0	6.1	0.0	689.6	0.01	99.99
177.0-178.0	6.1	0.0	689.7	0.00	100.00
178.0-179.0	6.1	0.0	689.7	0.00	100.00
179.0-180.0	6.1	0.0	689.7	0.00	100.00

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector: